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NR

CORRECTIVE ACTION STABILIZATION QUESTIONNAIRE

Completed by:

Date:

Jonathan AdenugaOct. 12, 1993RECEIVED NOV 19 1993
WMD RCRA
RECORD CENTER *Compliance*

Background Facility Information

Facility Name:

EPA Identification No.:

Location (City, State):

Facility Priority Rank:

Refined Metals Corp.IND 000 718 130Beech Grove, INModerate

1. Is this checklist being completed for one solid waste management unit (SWMU), several SWMUs, or the entire facility? Explain.

Entire facility

Status of Corrective Action Activities at the Facility

2. What is the current status of HSWA corrective action activities at the facility?

- (☒) No corrective action activities initiated
- () RCRA Facility Assessment (RFA) or equivalent completed
- () RCRA Facility Investigation (RFI) completed
- () Corrective Measures Study (CMS) completed
- () Corrective Measures Implementation (CMI) begun or completed
- () Interim Measures begun or completed

3. If corrective action activities have been initiated, are they being carried out under a permit or an enforcement order?

- () Operating permit
- () Post-closure permit
- (☒) Enforcement order

4. Have interim measures, if required or completed [see Question 2], been successful in preventing the further spread of contamination at the facility?

- () Yes
- (☒) No
- () Uncertain; still underway

CONTINUE TO QUESTION 5 ONLY IF THE FOLLOWING CONDITIONS ARE MET:

- The facility ranks "High" on the National Corrective Action Prioritization System; AND
- Interim Measures have not been initiated, or if initiated, have not been successful in preventing the further spread of contamination at the facility.

Facility Releases and Exposure Concerns

5. To what media have contaminant releases from the facility occurred or been suspected of occurring?

- () Ground water
- () Surface water
- () Air
- () Soils

US EPA RECORDS CENTER REGION 5



1003137

6. Are contaminant releases migrating off-site?

- ☐ Yes; Indicate media, concentrations, and level of certainty.
-
-
-

- ☐ No
☐ Uncertain

7a. Are humans currently being exposed to contaminants released from the facility?

- ☐ Yes
☐ No
☐ Uncertain

7b. Is there a potential for human exposure to the contaminants released from the facility over the next five to 10 years?

- ☐ Yes
☐ No
☐ Uncertain

8a. Are environmental receptors currently being exposed to contaminants released from the facility?

- ☐ Yes
☐ No
☐ Uncertain

8b. Is there a potential that environmental receptors could be exposed to the contaminants released from the facility over the next five to 10 years?

- ☐ Yes
☐ No
☐ Uncertain

Anticipated Final Corrective Measures

9. If already identified or planned, would final corrective measures be able to be implemented in time to adequately address any existing or short-term threat to human health and the environment?

- ☐ Yes
☐ No
☐ Uncertain

Additional explanatory notes:

10. Could a stabilization initiative at this facility reduce the present or near-term (e.g., less than two years) risks to human health and the environment?

- ☐ Yes
☐ No
☐ Uncertain

Additional explanatory notes:

11. If a stabilization activity were not begun, would the threat to human health and the environment significantly increase before final corrective measures could be implemented?

- ☐ Yes
☐ No
☐ Uncertain

Additional explanatory notes:

Technical Ability to Implement Stabilization Activities

12. In what phase does the contaminant exist under ambient site conditions?

- ☐ Solid
☐ Light non-aqueous phase liquids (LNAPLs)
☐ Dense non-aqueous phase liquids (DNAPLs)
☐ Dissolved in ground water or surface water
☐ Gaseous
☐ Other _____

13. Are one or more of the following major chemical groupings of concern at the facility?

- ☐ Volatile organic compounds (VOCs) and/or semi-volatiles
☐ Polynuclear aromatics (PAHs)
☐ Pesticides
☐ Polychlorinated biphenyls (PCBs) and/or dioxins
☐ Other organics
☐ Inorganics and metals
☐ Explosives
☐ Other _____

14. Are appropriate stabilization technologies available to prevent the further spread of contamination, based on contaminant characteristics and the facility's environmental setting? [See Attachment A for a listing of potential stabilization technologies.]

- ☐ Yes; Indicate possible course of action.

- ☐ No; Indicate why stabilization technologies are not appropriate; then go to Question 19.

15. Has the RFI, or another environmental investigation, provided the site characterization and waste release data needed to design and implement a stabilization activity?

- ☐ Yes
☐ No

If No, can these data be obtained faster than the data needed to implement the final corrective measures?

- ☐ Yes
☐ No

Timing and Other Procedural Issues Associated with Stabilization

16. Can stabilization activities be implemented more quickly than the final corrective measures?

- ☐ Yes
☐ No
☐ Uncertain

Additional explanatory notes:

17. Can stabilization activities be incorporated into the final corrective measures at some point in the future?

- ☐ Yes
☐ No
☐ Uncertain

Additional explanatory notes:

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CONFIDENTIAL

Conclusion

18. Is this facility an appropriate candidate for stabilization activities?

- ☐ Yes
- ☐ No, not feasible
- ☒ No, not required

Explain final decision, using additional sheets if necessary.

VISUAL SITE INSPECTION
REFINED METALS CORPORATION
IND 000718130

Date of Inspection: February 24, 1987
Weather: Clear, moderately cold
Participants: Judy Kleiman, Region V
Dave Koepper, IDEM
Ron Widner, Refined Metals

Facility Description

Refined Metals reclaims lead from spent lead-acid batteries. The batteries are crushed and fed into a blast furnace along with other waste materials. The melted lead is collected from the bottom of the blast furnace in large vats and is then formed into lead ingots as the final product. The emissions from the blast furnace are caught in baghouses and the baghouse dust or sludge is recycled back into the furnace. The slag from the furnace is also recycled back into the furnace.

Summary of Visual Inspection

The general appearance of this facility indicates poor housekeeping practices. Large portions of the property were gray from lead dust. Gray puddles were observed on the north and west sides of the facility; as well as a gray layer covering the soil. When the top layer of soil was scraped away, a more typical soil color was revealed.

In the northeast corner of the property, pieces of broken batteries were noted buried in the soil and a reddish coloration was observed in spots in the soil (photograph 1).

Along the north edge of the property, the ground sloped down toward a wire fence. The soil here was distinctively gray on top (photograph 2) but this gray layer was easily scraped away to reveal a more typical soil color.

On the north side of the facility, a drainage ditch led off-site (photograph 3). The immediate area here was a very soft mud overlaid with gravel. The mud was a distinctive gray color (photograph 4) indicating possible contamination from lead dust. The wetness here and the adjacent drainage ditch would carry any surface lead off-site, as well as down into the soil.

Several gray puddles were observed in the area around the breaker building. Photographs 5 and 6 show some of these gray puddles.

On the west side of the property there was another drainage ditch which led off-site towards Citizen's Gas. This would be a route for lead contamination to be carried off-site. The water in this area could also carry contamination down deep into the soil here. It is suspected, therefore, that lead contamination may exist at depths below the surface.

Unloading Area

Batteries are unloaded from the trucks onto a concrete loading dock (photograph 7). The facility representative said that the batteries do not remain on the loading dock for more than 8 hours. After being unloaded, the batteries are stored in trailer trucks near this loading dock.

Storage Area

Batteries are stored in eleven trailer trucks near the unloading dock on the east side of the property. (photograph 8). These trucks were all parked on the concrete parking area. This type of storage unit is obviously mobile, as trailers could easily be brought in or removed from the property.

Sump

On the driveway, north of the building, was a area where trucks unloaded already broken batteries. There is a sump here covered with steel plates (photograph 9). This sump is to catch run-off from the materials building, where water is used for dust control. The solids settle out here in the sump and are then combined with the battery plates in the blast furnace.

Breaker Building

The unbroken batteries received are unloaded directly into the breaker building. Photograph 10 shows a truck backed up to this building to unload the batteries. A stream of liquid which could have been sulfuric acid was observed dripping from the truck. A large battery breaker inside the building was receiving the batteries and crushing them. Photograph 11 shows the battery breaker inside the breaker building. Sulfuric acid was observed dripping out below from the battery breaker.

Baghouses

Three baghouses are located on the west side of the building (photograph 12). A new baghouse is under construction here (photograph 13). It is likely that the gray layer covering the soil on this property is the result of a leak in the baghouse operations.

The south side of the property was being used as a maintenance area (photograph 14) and a scrap yard (photograph 15). Large pieces of scrap cast iron were stored here for use in the blast furnace. The iron serves as a reducing agent for the lead in the batteries.

Waste Piles, Materials Storage Building

From the breaker house, we went into the materials storage building. Several large piles of waste materials are stored here before being fed into the blast furnace by way of a conveyor belt. Among the piles of waste materials were emptied and smashed cans/drums in which battery scraps and off-spec battery paste had been received, dust and sludge from the baghouses (K069), flue dust and dross, and slag from the furnace (photographs 16, 17, 18, 19). The floor

of this building was concrete but was covered with a layer of mud or sludge which was assumed to be materials from these waste piles mixed with water (photograph 20). Water is used here for dust control and the excess water from this building drains into the 3 part sump outside the building (photograph 9) where the solids would settle out.

Blast Furnace

From the storage building, the materials were fed into the blast furnace by way of a conveyor belt. The molten lead collects at the bottom of the furnace (photograph 21) and is forced out from the bottom by air pressure into a trough which passes into the adjacent room. The molten lead is collected in large vats and is cast into ingots as a final product. The dross from these vats or kettles is stored in the materials building and is recycled back into the furnace.

The slag which falls on top of the lead in the furnace is removed and stored in the materials building and is eventually fed back into the furnace. Slag which cannot be recycled further is taken to the South Side landfill.

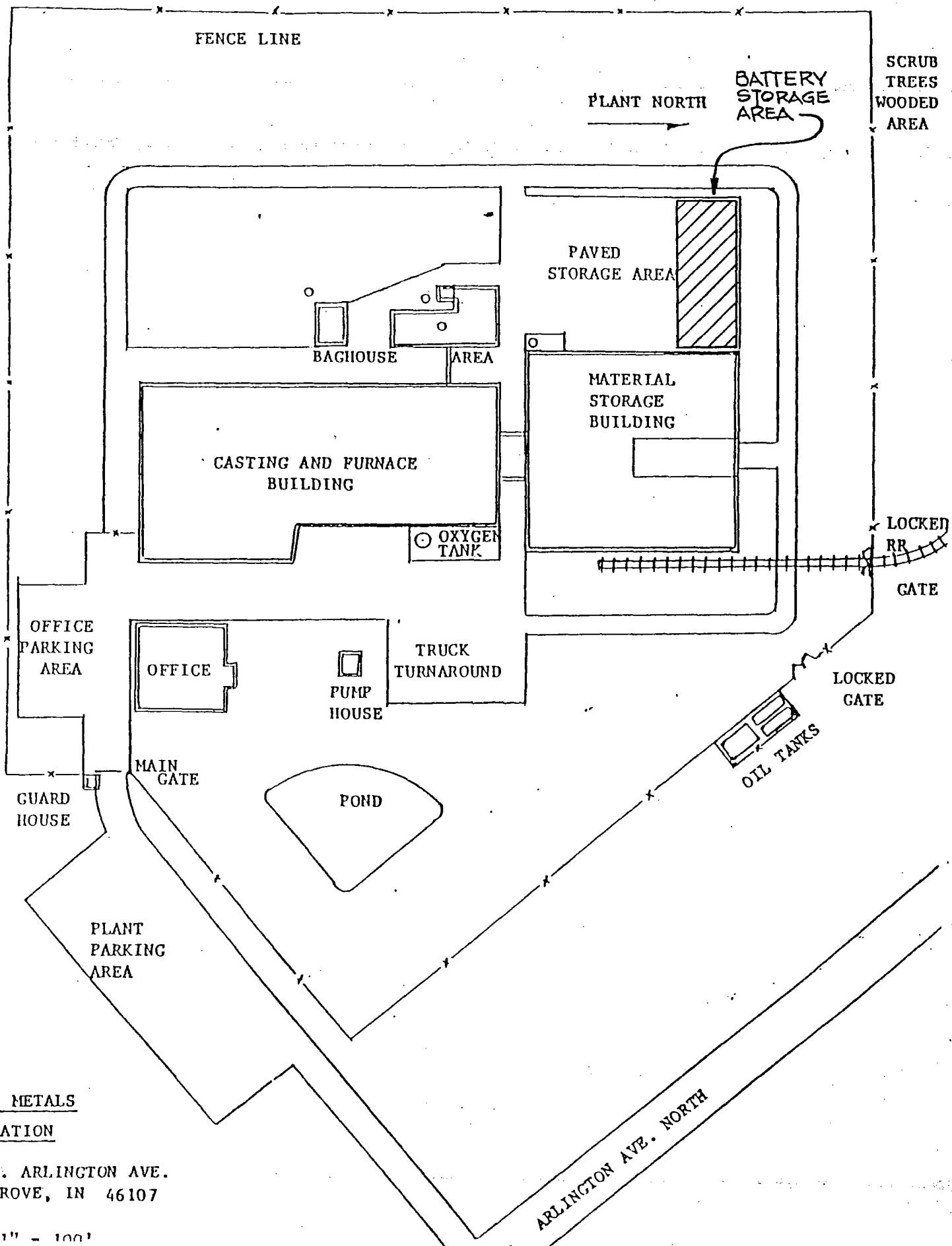
Conclusion

This visual inspection has indicated that areas of this facility appear to be contaminated. The gray color of the soil and of the puddles on the east, north and west sides of the property indicate the probable presence of lead. The drainage ways leading off-site to the north and west are of particular concern, as any surface contamination would be easily carried off-site by storm water run-off.

Probable sources of contamination are leaks from the baghouses or poor management of run-off from the material building.

Recommendation

This facility requires further investigation to determine the full nature and extent of contamination. This should include analysis of deep soil cores and the installation of wells to assess the condition of the ground-water. Sampling by IDEM in November 1985 has indicated lead in all samples, but no plan for corrective action has been yet been developed.



REFINED METALS
CORPORATION

3700 S. ARLINGTON AVE.
BEECH GROVE, IN 46107

SCALE 1" = 100'

PRELIMINARY REVIEW REPORT (PR)
RCRA FACILITY ASSESSMENT (RFA)

Facility Name Refined Metals
EPA ID # IND 000 718 130
Preparer Judy Kleiman
Date Feb. 28, 1987

2. General Description of Facility and Processes:

A. Description: This facility is involved in reclaiming lead from spent lead acid batteries. Used batteries and other lead bearing scrap material are received and melted down in a blast furnace. The molten lead is collected and sold as lead and lead alloys. This is a relatively small facility with only a few employees at one time. The parent company is located in Tennessee

B. Information on Solid Waste Management Units (attach additional sheets as needed):

	<u>Unit</u>	<u>Release (yes/no/unknown/suspected)</u>
i.	Battery Storage Area	unknown
ii.	Waste piles	probably
iii.	Baghouses	strongly suspected
iv.	slump	strongly suspected
v.	Blast furnace	
vi.	Surface Impoundment	unknown
vii.		
viii.		
ix.		
x.		

Specific Unit Information (prepare one for each unit):

A. Unit Type: Wastepile Regulatory Status: _____
Age: _____
Capacity: 190 tons _____
Period of Operation: _____
Waste Type: K069 _____
Volume: _____
Hazardous Constituents (attach separate sheet): lead, possibly other metals

B. Unit Description:

Emission control waste and fume control waste are stored here for further reclamation. These wastes are high enough in lead to be recycled in furnace. Some waste is also stored here from off-site.

Wastepiles are now all indoors in a building called the materials building. Inside this building water is used for dust control. This creates a problem with runoff containing lead which has not always been properly managed. This water is contaminated and has in the past overflowed the drainage control system.

Some waste is stored in this building in drums, but most of the waste here is slag from the furnace, fly ash, dross and baghouse waste.

The floor of this building is concrete but cracked or broken in places.

Additional Information Needed: _____

3. Specific Unit Information (prepare one for each unit):

A. Unit Type: Baghouses Regulatory Status: _____
Age: _____
Capacity: _____
Period of Operation: _____
Waste Type: K069 - from lead smelting _____
Volume: _____
Hazardous Constituents (attach separate sheet): lead, possibly other metals

B. Unit Description: These units are used for emission control for the blast furnace. The material caught here is still rich enough so lead and is stored in the material ~~house~~ building and is recycled back to the furnace.

These units are strongly suspected of leaks in the past. State reports release to the air on 11/8/82 due to faulty air pollution control equipment. Also reports of air release on March & April of 1982. Considerable soil contamination is believed to have resulted from leaks in baghouse.

Additional Information Needed: _____

3. Specific Unit Information (prepare one for each unit):

A. Unit Type: Sump Regulatory Status: _____
Age: _____
Capacity: _____
Period of Operation: _____
Waste Type: _____
Volume: _____
Hazardous Constituents (attach separate sheet): _____

B. Unit Description: Sump is used to catch
runoff. Water is used for dust control
on asphalt. Run off is caught in sump.
Sump consists of 3 parts to allow the solids
to settle out
Not much information is available

Additional Information Needed: _____

3. Specific Unit Information (prepare one for each unit):

A. Unit Type: drainage system Regulatory Status: _____
Age: _____
Capacity: _____
Period of Operation: _____
Waste Type: _____
Volume: _____
Hazardous Constituents (attach separate sheet): _____

B. Unit Description: _____
Wastewater which is used for dust control
has been allowed to overflow from the drainage
system to a ditch that flows off site.

Additional Information Needed: _____

Specific Unit Information (prepare one for each unit):

A. Unit Type: wastewater pretreatment Regulatory Status: _____
 Age: _____
 Capacity: _____
 Period of Operation: _____
 Waste Type: _____
 Volume: _____
 Hazardous Constituents (attach separate sheet): _____

B. Unit Description: wastewater pretreatment plant
permit covers pH, Cd, Ni, Cu, Zn, Pb. No release
known.
Hazardous runs off from waste pile overflowing
seep release into the tank part of the WWTU. Tank
is below grade.
No known releases from this unit.

Additional Information Needed:

Is this a pond? Is a pond connected
to a WWTU?

3. Specific Unit Information (prepare one for each unit):

A. Unit Type: Blast Furnace Regulatory Status: _____
Age: _____
Capacity: _____
Period of Operation: _____
Waste Type: _____
Volume: _____
Hazardous Constituents (attach separate sheet): _____

B. Unit Description: Blast Furnace is used to
burn waste material containing lead. Lead
is melted down and collected. Slag + flue
dust from this process are recycled.
No other information is available on this unit

Additional Information Needed: _____

Specific Unit Information (prepare one for each unit):

A. Unit Type: Surface Impoundment Regulatory Status: _____
Age: _____
Capacity: _____
Period of Operation: _____
Waste Type: _____
Volume: _____
Hazardous Constituents (attach separate sheet): _____

B. Unit Description: _____
The impoundment may not be hazardous. It is
not known what went into the pond. May have
Runoff from storage area + parking lot

Additional Information Needed: _____

C. Monitoring Description (groundwater, surface water, etc.): _____

None

Because of soil contamination, groundwater monitoring may be necessary.

Additional Information Needed: _____

D. Environmental Setting:

The underlying glacial till has numerous gravel layers and is conducive to contaminant migration. Soil & surface water contamination may have leached into groundwater.

Off site streams include Chocomaun creek and Bear Creek.

Population is approximately 7000 within a surrounding 3 mile radius. Population affected by stack emission is estimated to be about 10,000.

Additional Information Needed:

E. Evidence of Suspected Past or Current Releases:

Inefficient or leaky baghouses are believed to have caused contamination of the property with lead dust. Soil samples taken in November, 1985 by I.D.E.R. indicate lead contamination in all samples. Samples were also E.P. tested for arsenic and cadmium. Reports in March, April & Nov of 1982 indicate air releases from faulty air pollution devices. An inspection by Dave Koeppe in June, 1985 reported that some batteries were spilling contents onto the ground. Old crashed battery parts were visible sticking out of the soil where they were partially buried. In March of 1985 ~~the~~ the state of Indiana investigated an oil spill. No information is available on this.

Additional Information Needed:

Visual Site Inspection (VSI)

A. Specific Objectives:

Identify areas of waste piles. Look for visual evidence of release from waste piles. Are all waste piles indoors? Are there cracks in the concrete.

Look for areas of drainage system. Where does water used for dust control go? Is there evidence of overflow of drainage system? Is drainage system connected with sump?

Look for evidence of baghouse leaks. Does soil or vegetation indicate contamination?

Look at areas that were sampled by TDEM in Nov of 1985.

- a) along north side of paved area, north of plant
- b) in low drainage area
- 3) from a dirt pile west of the wastewater treatment unit

OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

PROJECT/CASE NO: Refined Metals
 SUBJECT: discoloration in soil
 LOCATION: east side
 CITY: _____ COUNTY: _____ STATE: _____
 DATE: _____ TIME: _____
 WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
 PHOTOGRAPHER (Sig.) _____
 WITNESS: _____
 CAMERA: _____
 FILM TYPE: _____ ASA: _____ T.I.: _____ f: _____
 NEGATIVE LOCATION: _____ FILE #: _____
 PROCESSED BY: _____
 PHOTO #: _____ of _____

GPO 838-388



OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

PROJECT/CASE NO: Refined Metals
 SUBJECT: gray color of soil
 LOCATION: North perimeter
 CITY: _____ COUNTY: _____ STATE: _____
 DATE: 2/24/87 TIME: _____
 WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
 PHOTOGRAPHER (Sig.) Judy Kleiman
 WITNESS: Dave Koeppe, IDEM
 CAMERA: _____
 FILM TYPE: 35mm ASA 100 T.I.: _____ f: _____
 NEGATIVE LOCATION: _____ FILE #: _____
 PROCESSED BY: _____
 PHOTO #: _____ of _____

GPO 838-388



OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

PROJECT/CASE NO: Refined Metals
 SUBJECT: drainage ditch, gray soil
 LOCATION: North side
 CITY: _____ COUNTY: _____ STATE: _____
 DATE: 2/24/87 TIME: _____
 WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
 PHOTOGRAPHER (Sig.) _____
 WITNESS: Dave Koeppe, IDEM
 CAMERA: _____
 FILM TYPE: _____ ASA: _____ T.I.: _____ f: _____
 NEGATIVE LOCATION: _____ FILE #: _____
 PROCESSED BY: _____
 PHOTO #: _____ of _____

GPO 838-388

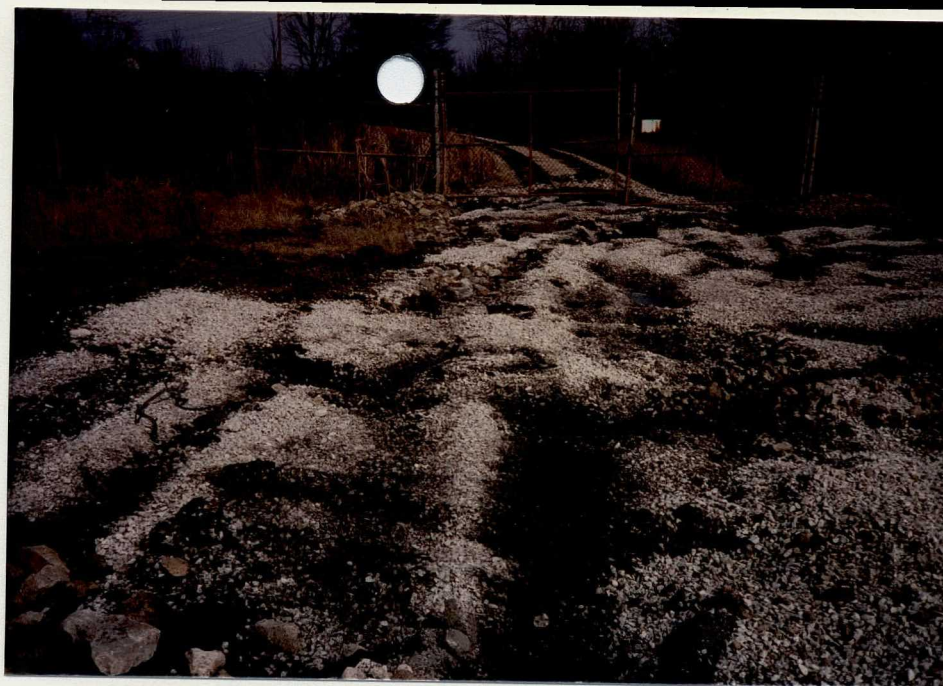


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U.S. ENVIRONMENTAL PROTECTION AGENCY

PROJECT/CASE NO: Refined Metals
SUBJECT: drainage ditch, gray soil
LOCATION: North side

CITY: _____ COUNTY: _____ STATE: _____
DATE: _____ TIME: _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) _____
WITNESS: _____
CAMERA: _____
FILM TYPE: _____ ASA: _____ T.1/ _____ f: _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

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OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

PROJECT/CASE NO: Refined Metals
SUBJECT: gray puddles
LOCATION: NW side

CITY: _____ COUNTY: _____ STATE: _____
DATE: 2/24/87 TIME: _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) _____
WITNESS: Dave Koepfer
CAMERA: _____
FILM TYPE: _____ ASA: _____ T.1/ _____ f: _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

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U.S. ENVIRONMENTAL PROTECTION AGENCY

PROJECT/CASE NO: Refined Metals
SUBJECT: gray puddles
LOCATION: breakers building

CITY: _____ COUNTY: _____ STATE: _____
DATE: 2/24/87 TIME: _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) Judy Kleiman
WITNESS: Dave Koepfer
CAMERA: _____
FILM TYPE: _____ ASA: _____ T.1/ _____ f: _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

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U.S. ENVIRONMENTAL PROTECTION AGENCY

(7)

PROJECT/CASE NO: Refined Metals
SUBJECT: unloading dock
LOCATION: east side
CITY: _____ COUNTY: _____ STATE: _____
DATE: _____ TIME: _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) Judy Kleiman
WITNESS: _____
CAMERA: _____
FILM TYPE: _____ ASA: _____ T.1/ _____ f. _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

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U.S. ENVIRONMENTAL PROTECTION AGENCY

(8)

PROJECT/CASE NO: Refined Metals
SUBJECT: Storage Trailers
LOCATION: east side
CITY: _____ COUNTY: _____ STATE: _____
DATE: _____ TIME: _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) Judy Kleiman
WITNESS: _____
CAMERA: _____
FILM TYPE: _____ ASA: _____ T.1/ _____ f. _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

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OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

(9)

PROJECT/CASE NO: Refined Metals
SUBJECT: Sump
LOCATION: various side
CITY: _____ COUNTY: _____ STATE: _____
DATE: _____ TIME: _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) _____
WITNESS: _____
CAMERA: _____
FILM TYPE: _____ ASA: _____ T.1/ _____ f. _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

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U.S. ENVIRONMENTAL PROTECTION AGENCY

(10)

PROJECT/CASE NO: Refined Metals
SUBJECT: Trucks unloading to breaker bldg.
LOCATION: _____
CITY: _____ COUNTY: _____ STATE: _____
DATE 2/24/87 TIME _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) _____
WITNESS: _____
CAMERA: _____
FILM TYPE _____ ASA _____ T.1/ _____ f. _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

GPO 838-588



OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

(11)

PROJECT/CASE NO: Refined Metals
SUBJECT: Breaker building, Battery
LOCATION: Breaker
CITY: _____ COUNTY: _____ STATE: _____
DATE 2/24/87 TIME _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) _____
WITNESS: _____
CAMERA: _____
FILM TYPE _____ ASA _____ T.1/ _____ f. _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

GPO 838-588



OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

(12)

PROJECT/CASE NO: Refined Metals
SUBJECT: Bag House
LOCATION: west side
CITY: _____ COUNTY: _____ STATE: _____
DATE 2/24/87 TIME _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) Judy Helmer
WITNESS: _____
CAMERA: _____
FILM TYPE _____ ASA _____ T.1/ _____ f. _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

GPO 838-588



OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

(13)

PROJECT/CASE NO: Refined Metals
SUBJECT: new baghouse
LOCATION: _____
CITY: _____ COUNTY: _____ STATE: _____
DATE: _____ TIME: _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) _____
WITNESS: _____
CAMERA: _____
FILM TYPE: _____ ASA: _____ T.I.: _____ f: _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

GPO 525-555



OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

(14)

PROJECT/CASE NO: Refined Metals
SUBJECT: maintenance area
LOCATION: South side
CITY: _____ COUNTY: _____ STATE: _____
DATE: _____ TIME: _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) _____
WITNESS: _____
CAMERA: _____
FILM TYPE: _____ ASA: _____ T.I.: _____ f: _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

GPO 525-555



OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

(15)

PROJECT/CASE NO: Refined Metals
SUBJECT: scrap pile
LOCATION: South side
CITY: _____ COUNTY: _____ STATE: _____
DATE: _____ TIME: _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) _____
WITNESS: _____
CAMERA: _____
FILM TYPE: _____ ASA: _____ T.I.: _____ f: _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

GPO 525-555



16

OFFICIAL PHOTOGRAPH
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PROJECT/CASE NO: Refined Metals
SUBJECT: Wastepile / cans, drums
LOCATION: Materials Bldg.
CITY: _____ COUNTY: _____ STATE: _____
DATE: 2/24/87 TIME: _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) - Judy Klemen
WITNESS: Dave Kaeppner
CAMERA: Ricoh
FILM TYPE: 35mm ASA 100 T11 f. _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

GPO 838-588

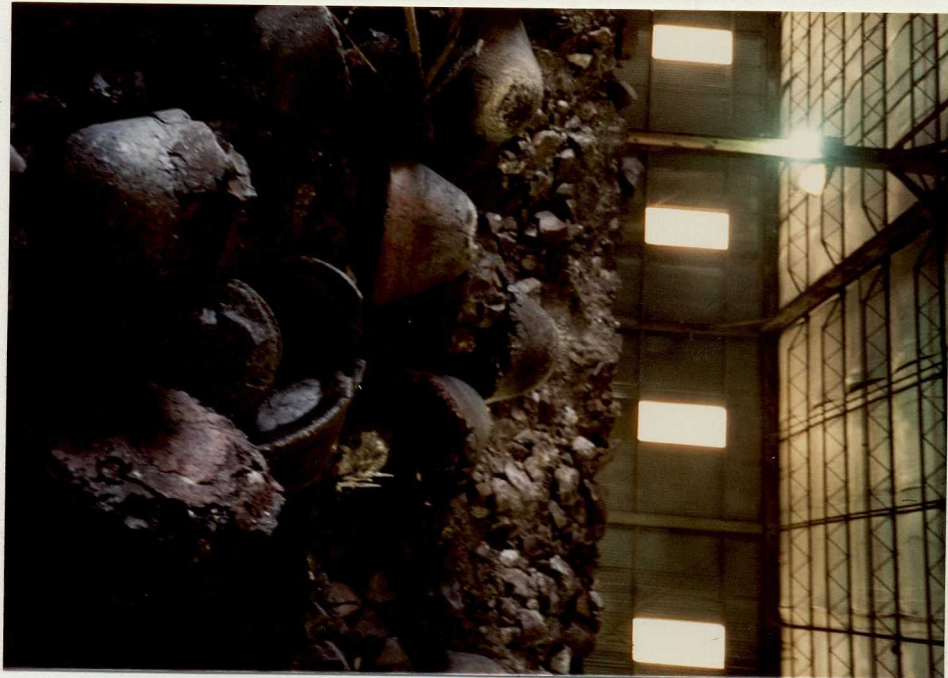


17

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U.S. ENVIRONMENTAL PROTECTION AGENCY

PROJECT/CASE NO: Refined Metals
SUBJECT: Wastepile / slag from furnace
LOCATION: Materials Building
CITY: _____ COUNTY: _____ STATE: _____
DATE: 2/24/87 TIME: _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) - Judy Klemen
WITNESS: Dave Kaeppner
CAMERA: Ricoh
FILM TYPE: 35mm ASA 100 T11 f. _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

GPO 838-588



18

OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

PROJECT/CASE NO: Refined Metals
SUBJECT: Wastepile
LOCATION: Materials Building
CITY: _____ COUNTY: _____ STATE: _____
DATE: _____ TIME: _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) - Judy Klemen
WITNESS: Dave Kaeppner
CAMERA: _____
FILM TYPE: _____ ASA _____ T11 _____ f. _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

GPO 838-588



19
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

PROJECT/CASE NO: Refined Metals
K069 - Baghouse Dust
LOCATION: Materials Building
CITY: _____ COUNTY: _____ STATE: _____
DATE 2/24/87 TIME _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sg.) Judy Klemen
WITNESS Dave Koepfer
CAMERA: Ricoh
FILM TYPE 35mm ASA 100 T.1/ _____ F. _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

GPO 838-588



20
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

PROJECT/CASE NO: Refined Metals
SUBJECT waste pile, slurry on floor
LOCATION: Materials Building
CITY: _____ COUNTY: _____ STATE: _____
DATE _____ TIME _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sg.) Judy Klemen
WITNESS Dave Koepfer
CAMERA: Ricoh
FILM TYPE 35mm ASA 100 T.1/ _____ F. _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

GPO 838-588

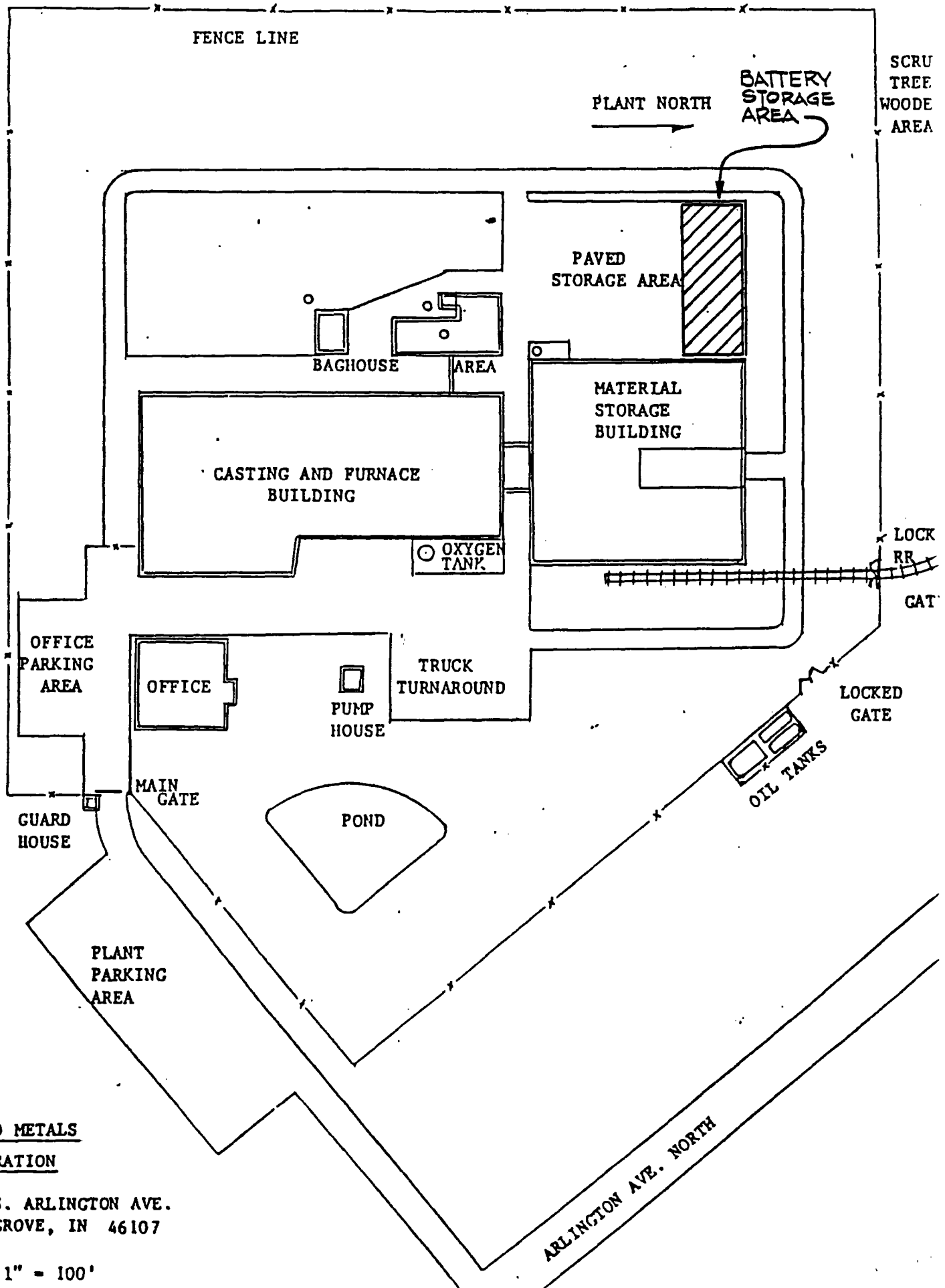


21
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

PROJECT/CASE NO: Refined Metals
SUBJECT Blast Furnace
LOCATION: _____
CITY: _____ COUNTY: _____ STATE: _____
DATE _____ TIME _____
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sg.) Judy Klemen
WITNESS Dave Koepfer
CAMERA: Ricoh
FILM TYPE 35mm ASA 100 T.1/ _____ F. _____
NEGATIVE LOCATION: _____ FILE #: _____
PROCESSED BY: _____
PHOTO #: _____ of _____

GPO 838-588



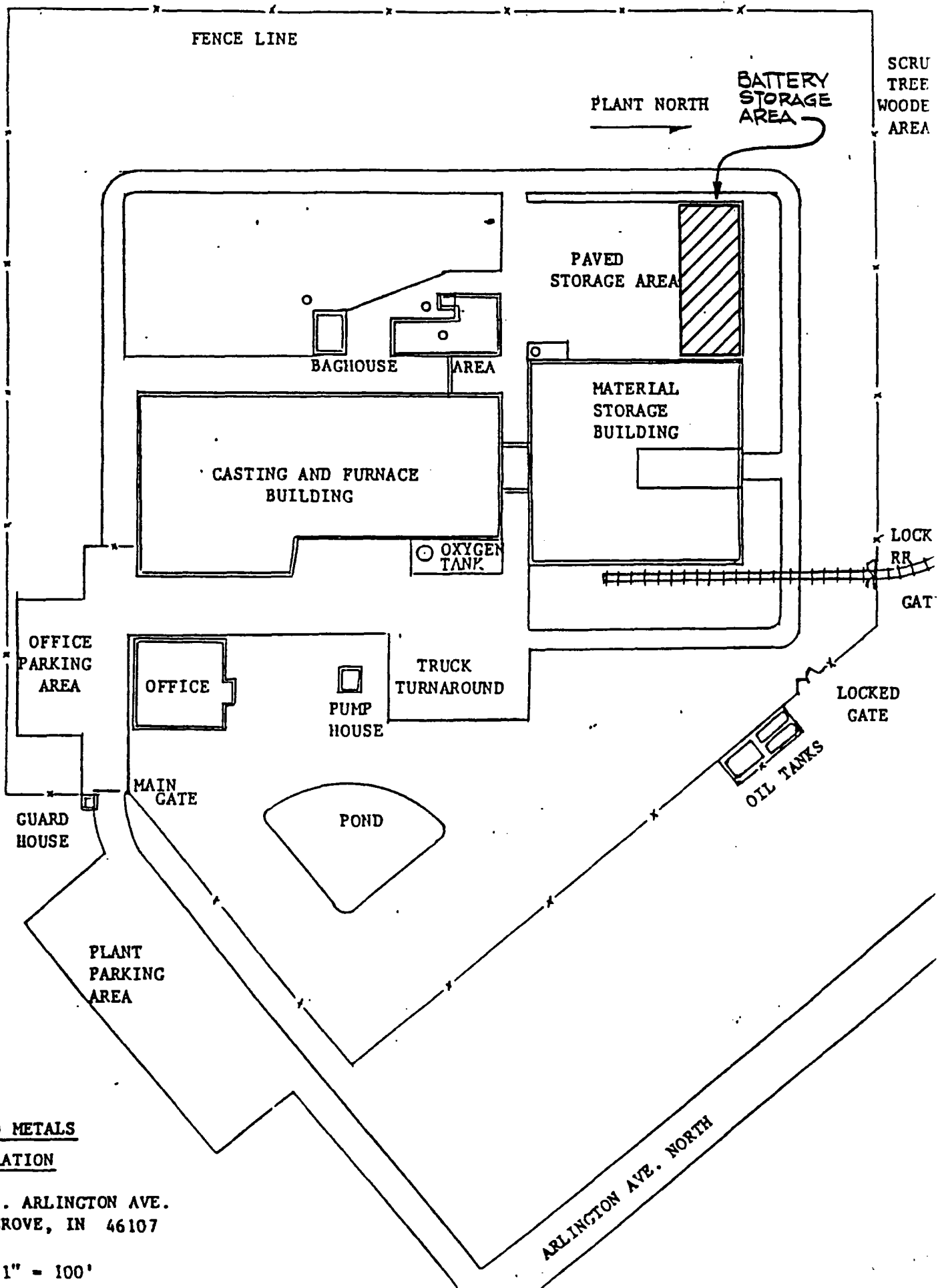


REFINED METALS

CORPORATION

700 S. ARLINGTON AVE.
BEECH GROVE, IN 46107

SCALE 1" = 100'



REFINED METALS

CORPORATION

3700 S. ARLINGTON AVE.
BEECH GROVE, IN 46107

SCALE 1" = 100'

Photo Legend

MSB: Material Storage Bldg: #s 15, 16, 17, 18, 19

BB: Breaker Bldg: # 6, 7, 8

WWTU: Waste Water Treatment Unit, #9

FP: Filter press; #10

WS: West Sump #11

ES: East Sump #12

Baghouses

Smelter/Refinery

MSB

Refractory waste pile

Track off rise

OFFICE

SCALE

plastic lined rainfall receptacle

ABANDONED ROAD

STORAGE OF BATTERIES IN TRAILERS

ARLINGTON AVE.

LEGEND



CONTAINER STORAGE AREA



Area Seeking permit before closure



Tumbler, Sorter area



Air monitoring stns



Marsh

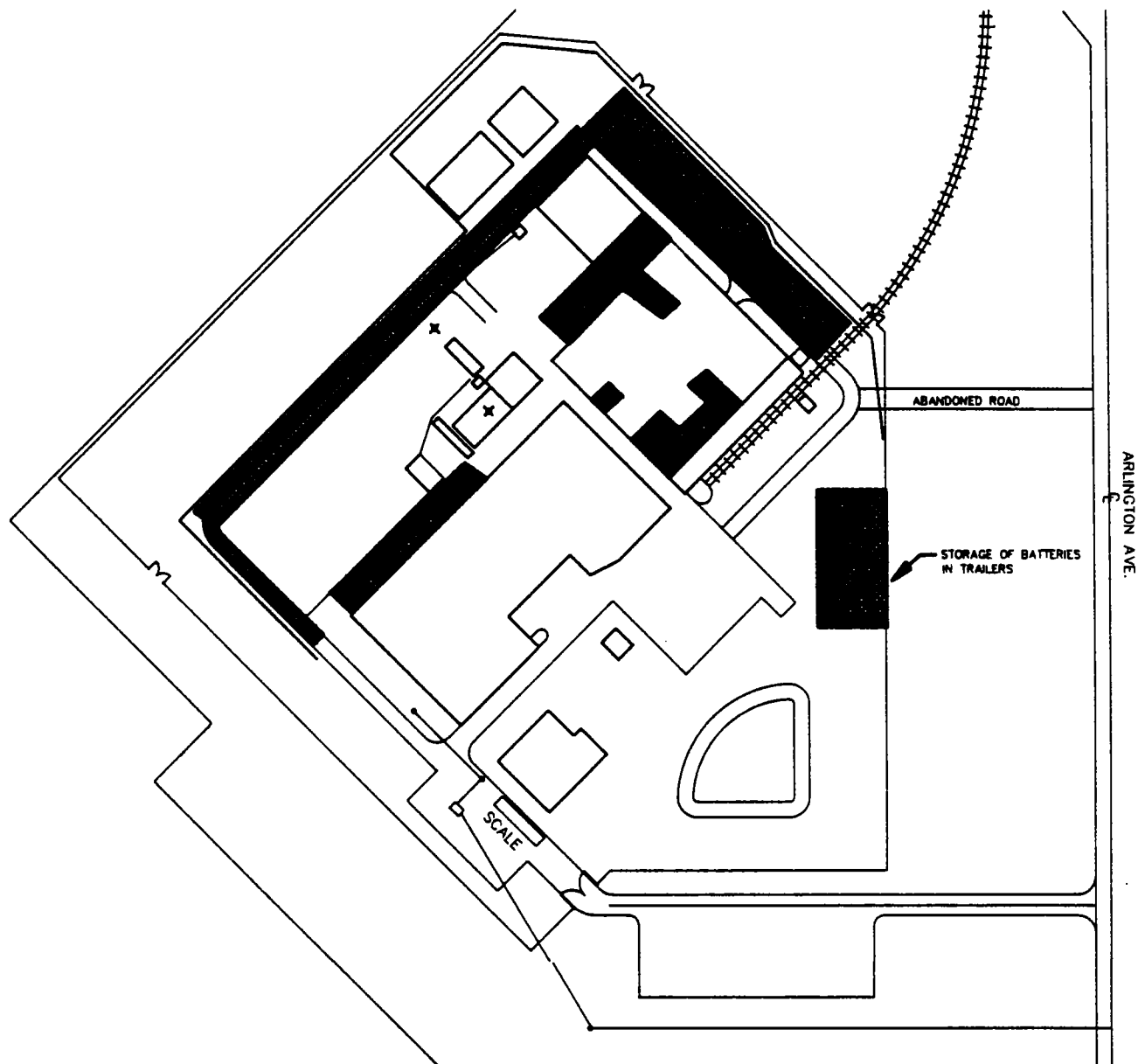


Sumps



100 50 0 100 200

SCALE IN FEET



LEGEND



CONTAINER STORAGE AREA



SCALE IN FEET

255-005

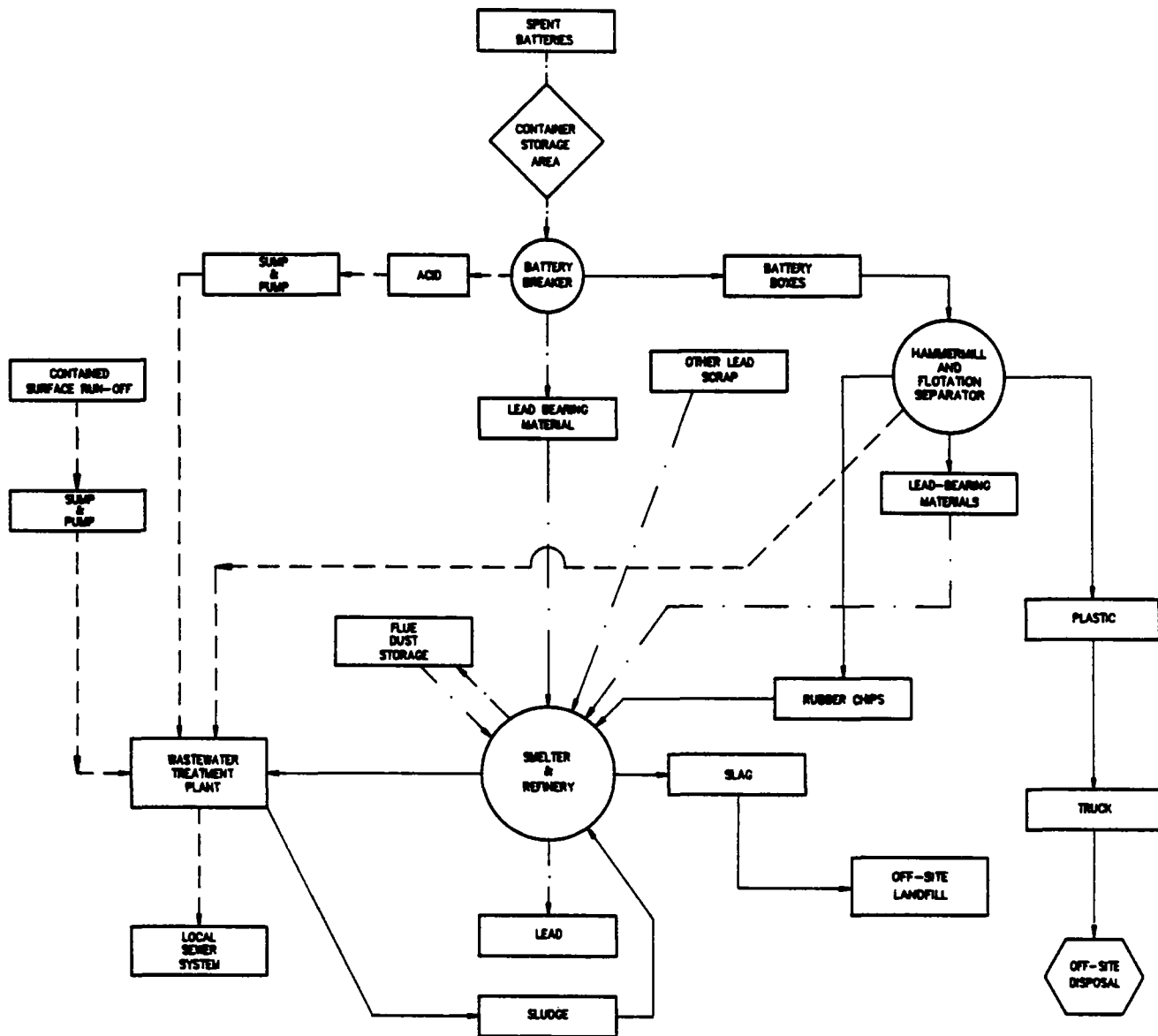


LAKE ENGINEERING, INCORPORATED
6000 LAKE FOREST DR. SUITE 360
ATLANTA, GEORGIA 30326

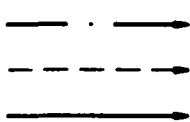
REFINED METALS CORP.
BEECH GROVE, INDIANA

CONTAINER
STORAGE AREA

FIGURE
3-1



LEGEND



MATERIALS



PROCESSES



REGULATED FACILITY



REMOVAL FROM PLANT PROPERTY

F# 255-009 P/5/1-1 11-3-88 M.A.R.

255-009

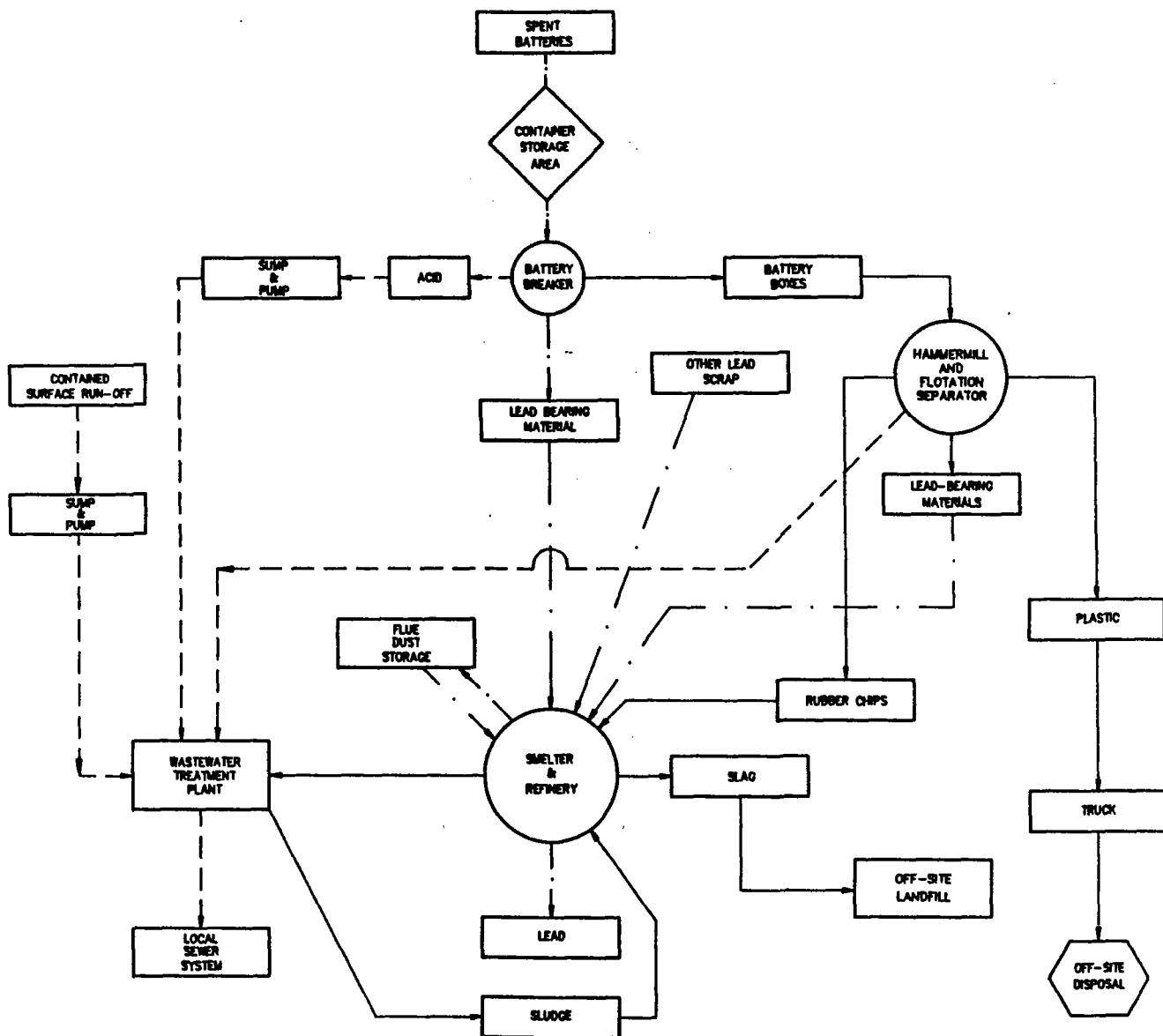


LAKE ENGINEERING, INCORPORATED
8000 LAKE FOREST DR. SUITE 350
ATLANTA, GEORGIA 30328

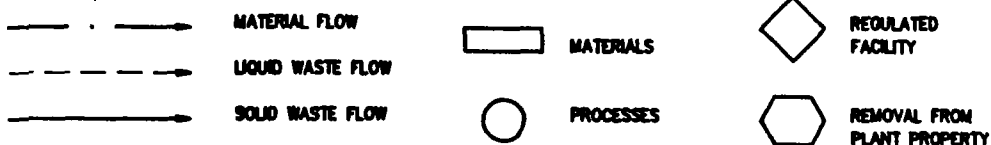
REFINED METALS CORP.
BEECH GROVE, INDIANA

PROCESS FLOW
DIAGRAM

FIGURE
2-2



LEGEND



255-009



LAKE ENGINEERING, INCORPORATED
6000 LAKE FORREST DR. SUITE 360
ATLANTA, GEORGIA 30328

REFINED METALS CORP.
BEECH GROVE, INDIANA

PROCESS FLOW
DIAGRAM

FIGURE
2-2

FACILITY MANAGEMENT PLAN APPROVAL

Facility Name Refined Metals Corp.
EPA ID Number IND 000 718130
Facility Location 3700 S. Arlington
Beech Grove, IN 46107

Date Received from State 4/11/86
Date TPS Review 4/22/86
Date HWEB Review - 5/7/86
Date ERRB Review - 5/5/86

The Facility Management Plan for this facility is

- ☐ Corrective Action Order
☐ Action involving ERRB
☒ RCRA permit
☒ Other

Brief narrative Facility is thought to have contaminated on-site and possibly off-site soils with lead, sulfuric acid and solvents. Soil samples have been found to be EP toxic for lead and cadmium. There should be further investigation of the facility to determine extent of contamination from waste piles. The IDEM has issued a Complaint Order. The IDEM is to pursue closure of waste piles and remaining aspects of the facility be permitted under RCRA. If further contamination is found, then Corrective Action Order should be issued.

Based on my review, this FMP is hereby approved

Signature Clinton Fletcher
(EPA TPS staff)

Date 5/19/86

FACILITY MANAGEMENT PLAN (FMP)
Concurrence Sheet

To: Unit Chief, Hak Cho, Technical Programs Section.
State of Indiana

Name of Facility:

Refined Metals Corp.

Identification Number:

IND 000718130

I have reviewed the subject FMP and concur/disagree with the recommended course of action.

Comments:

I concur with the recommendation for state action. The state's objective is to have the waste pile operation closed and remaining aspects of the facility permitted under RCRA standards. However, I would recommend also for further investigation to evaluate the facility. Soil samples taken were found to be EP toxic for lead and cadmium. Thus, releases have occurred on-site. There exists the possibility of surface water contamination and for ground water contamination. Further investigation could determine the extent of releases. If the facility closes the waste pile operation, the closure plan should include the remedial investigation and corrective action. If the facility does not close, then a corrective action order should be issued.

PA/ST

Christy Fletcher 4/22/86
Signature and Date

STATE BOARD OF HEALTH

INDIANAPOLIS

OFFICE MEMORANDUM

DATE: March 31, 1986

TO: Refined Metals Corporation File
Beech Grove, Indiana, IND 000718130THRU: Bruce H. Palin *BHP 4/13/86*
Terry F. Gray *TFG 4/13/86*
*by JN*FROM: Dale Beal, Engineering Section *DAB 4-1-86*
Janet Snedeker, Plan Review and Permit Section *PES 4/1/86*SUBJECT: Facility Management Plan
Refined Metals Corporation
An Environmentally Significant FacilityPermit Status

This facility is a secondary lead smelter operation. The original Part A was submitted on November 11, 1980, but did not list waste codes or design capacities. On March 26, 1984, Refined Metals submitted a letter to the EPA requesting withdrawal of the Part A as it was felt that the facility had generator status only. The EPA denied this request on April 24, 1984. On July 3, 1985, a new Part A was received which listed battery storage only.

Summary

This facility stores waste in piles. Off-site waste consists of batteries and battery parts, bag house dust, fume control system waste, and reject materials from manufacturers. The facility generates waste from the smelting operation. Waste is stored inside and outside. On November 21, 1985, Indiana State Board of Health (ISBH) staff inspected the facility and took soil samples. Some of these soil samples have been found to be EP Toxic for lead and cadmium (summary of results attached).

Based on the results of the inspection of June 18, 1985, the Complaint, Notice of Opportunity for Hearing, and Proposed Final Order was sent to the facility on December 24, 1985. The objective at this time is to have the waste piles closed and remaining aspects of the facility permitted under RCRA standards.

Recommendations

It is recommended that the course of action outlined above be continued.

DAB/kp
Attachments*kp OFI 2H 3/31/86*

STATE BOARD OF HEALTH

INDIANAPOLIS

OFFICE MEMORANDUM

TO: David J. Koepper
Compliance Monitoring Section

FROM: Gregory A. Busch *GAB 2/19*
Quality Assurance Officer

DATE: February 18, 1986

THRU: Jack C. Corpuz *PC 2/19/86*
James E. Traylor *JET 2/20*
Guinn P. Doyle *GPD 2/24*
James M. Hunt *JMH 2/24*

SUBJECT: Review of Laboratory Results
for Samples Collected on
November 21, 1985, at Refined Metals
Marion County

I have reviewed the attached laboratory results. I have determined that the results are acceptable for use in enforcement actions. These results have been evaluated for the quality criteria contained in the Indiana Quality Assurance Project Plan. Any qualifications to the acceptance of this data will be identified in this memo.

Field duplicate samples are used to establish the representativeness of the field sampling (or the sampling variability). The field duplicates compare well for all metals except arsenic.

The total metal values for arsenic, cadmium, and lead are all high, especially the levels for lead. All samples are EP Toxic for lead. Two samples (C0372 and C0374) are EP Toxic for cadmium.

GAB/kp

Sampled.

11/21/85

PPM

	As Tot. EP	Ba Tot. EP	Cd Tot. EP	Cr Tot. EP	Pb Tot. EP	Hg Tot. EP	Ni Tot. EP	Se Tot. EP	Ag Tot. EP		(mg/L) Tot. STAT	(mg/L) Tot. STAT
Field												
CD370	.05	3.8	1.4	3.5	1.5	1.5	575	1.5	1.5		57	
Field												
CD371	.30	5.8	1.9	9.3	1.4	1.4	525	7.3	1.3		59	
Field												
CD372	.04	4.3	3.3	3.3	2.2	2.2	659	4.6	ND		90	
Field												
CD373	.03	18	6.0	6.0	ND	20.0	ND	1.8	ND		87	
Field												
CD374	.02	34	7.0	7.0	1.7	550	9.3	0.5	ND		85	

Refined Metals Corp.
Marion County

Gregory O. Bood
1-17-86

Name of Preparer: J. Snedeker/D. Beal
 Date: March 26, 1986

Model Facility Management Plan

1. Facility Name: Refined Metals Corp.

2. Facility I.D. Number: IND000718130

3. Owner and/or Operator: _____

4. Facility Location: 3700 S. Arlington
 Street Address

Beech Grove Marion IN 46107
 City County State Zip Code

5. Facility Telephone (if available): (317) 787-6364

6. Interim Status and/or Permitted Hazardous Waste Units and Capacities of Each Unit:

<u>Type of Units</u>	<u>Size or Capacity</u>	<u>Active or Closed</u>
<input checked="" type="checkbox"/> Storage in Tanks or Containers	200 yds	active
<input type="checkbox"/> Incinerator		
<input type="checkbox"/> Landfill		
<input type="checkbox"/> Surface Impoundment		
<input checked="" type="checkbox"/> Waste Pile	unknown	active
<input type="checkbox"/> Land Treatment		
<input type="checkbox"/> Injection Wells		
<input type="checkbox"/> Others (Specify)		

7. Permit Application Status: _____ (USE action item number!)

8. Identification of Hazardous Waste Generated, Treated, Stored or Disposed at the Facility: (may attach Part A or permit list or reference those documents if listing of wastes is exceptionally long - in that case, to complete this question list wastes of greatest interest and/or quantity and note that additional wastes are managed)

<u>Type of Waste</u>	<u>Quantity</u>	<u>Generated, Treated, Stored or Disposed</u> (note appropriate categories)
----------------------	-----------------	--

Batteries
D002, D008

190 tons
max at
any one
time

S03

9. Review of Response to Solid Waste Management Questionnaire indicates: (check one)

☒ Solid Waste Management Units exist (other than previously identified RCRA units)

☐ No Solid Waste Management Units exist (other than previously identified RCRA units)

☐ It is unclear from review of questionnaire whether or not any solid Waste Management Units exist

☐ Respondent indicates that does not know if any Solid Waste Management Units exist

10. If the response to question 9 is that Solid Waste Management Units exist, than check one of the following:

☒ Releases of hazardous waste or constituents have occurred or are thought to have occurred

☐ Releases of hazardous waste or constituents have not occurred

☐ Releases of hazardous waste or constituents have occurred or are thought to have occurred but have been adequately remedied

☐ It is not known whether a release of hazardous waste or constituents has occurred

11. The facility is on the National Priorities List or proposed update of the List or ERRIS list

_____ Yes - indicate List or update

_____ No

 X Yes - ERRIS list

Prior to completion of the Recommendation portion of the Facility Management Plan, the attached Appendix must be completed.

12. Recommendation for Regional Approach to the Facility: Check one

_____ Further Investigation to Evaluate Facility

_____ Permit Compliance Schedule

_____ Corrective Action Order (may include compliance schedule)

_____ Other Administrative Enforcement

_____ Federal Judicial Enforcement

_____ Referral to CERCLA for Federally Financed or Enforcement Activity

_____ Voluntary/Negotiated Action

 X State Action

Brief narrative in explanation of selection : _____

a) If further investigation alternative is selected:

_____ Site inspection - anticipated inspection date _____

State or Federal inspection _____

_____ Preliminary Assessment - anticipated completion date _____

_____ RI/FS - anticipated date of initiation _____

State/Federal _____

Private Party _____ identify party(ies)

b) If Permit Alternative is Selected: Projected Schedule

Date of Part B Submission: _____

Date of Completeness Check: _____

Date for Additional Submissions (if required): _____

Date of Completion of Technical Review: _____

Completion of Draft Permit/Permit Denial: _____

Public Notice for Permit Decision: _____

Date of Hearing (if appropriate): _____

Date for Final Permit or Denial Issuance: _____

Description of any corrective action provisions to be included in permit -

c) If Corrective Action Order Alternative is Selected:

Estimated Date for Order Issuance: _____

Description of Provisions of the Order to be Completed by
Facility: _____

Description of Compliance Schedule to be Contained in Order:

d) If Other Administrative Enforcement Action is Selected:

Projected Date for Issuance of the Order: _____

Description of Provisions or Goals of the Order: _____

e) If Judicial Enforcement Alternative Selected:

Date of Referral to Office of Regional Counsel: _____

f) If Referral to CERCLA for Action Selected:

Date of Referral to CERCLA Sections: _____

g) If Voluntary/Negotiated Action Alternative if Selected:

Date of Initial Contact with Facility: _____

Description of Goals of Contact or Discussions with
Facility: _____

Date for Termination of Discussions if Not Successful:

Date of Finalization of Settlement if Negotiation Successful:

h) If State Action Alternative is Selected:

Date for Referral to State: _____

Name of State Contact: _____

Phone: _____

APPENDIX

The questions constituting this Appendix to the Facility Management Plan must be filled out prior to completion of recommendation elements of the Plan. The purpose of this appendix is to provide a summary documentation of the State and/or U.S.EPA review of available information on the subject facility. The intent is that a comprehensive file review will be conducted as the basis for selection of the recommended approach to a given facility. If the Appendix is completed by State personnel questions referring to available data reference information in State files; for Federal personnel the reference is to Federal files. Where questions refer to "all" available data or information and such material is voluminous, the response should indicate that files are voluminous, and then reference most telling information, for example groundwater contaminants found frequently or at extremely high concentrations should be specifically listed, and information most directly supporting recommended approach to facility should be described. If no information is available in facility files, the response should so indicate. It is also anticipated that this Appendix may be updated periodically as more information becomes available.

1. Description of All Available Monitoring Data for Facility:

<u>Type of Data</u>	<u>Date</u>	<u>Author</u>	<u>Summary of Results or Conclusions</u>
Furnace slag analysis	11/13/80	Refined Metals	Inconclusive results
"	2/24/81	A&L Environmental services	Material lead content not EP toxic
Soil analysis	11/21/85 (sampling date)	ISBH - EMIS LABS	On-site soils found to be EP toxic for lead.

2. Description of Enforcement Status:

<u>Type of Action</u>	<u>Date</u>	<u>Local, State or Federal</u>	<u>Result or Status</u>
NOV	4/13/82	State	> Appear to have been partially resolved, although there is nothing regarding resolution in files
NOV	7/30/82	S	
Complaint	12/13/85	S	
			Response from company is inadequate

3. Description of Any Complaints from Public:

<u>Source of Complaint</u>	<u>Date</u>	<u>Recipient</u>	<u>Subject and Response</u>
article in Indep/ls Star	4/8/82	N/A	Air pollution control equipment failure

4. Description of All Inspection Reports for Facility:

<u>Date of Inspection</u>	<u>Inspector</u> (Local, State, or Federal)	<u>Conclusions or Comments</u>
12/18/81	Terry Gray-S	Referred for follow up inspection
2/26/82	Regina Mahoney-S	Referral to enforcement
7/21/82	J. Thomas Eitch-S	Follow up to 2/26/82 inspecti several violations
7/13/84	Tom Linson J. Sheddaker-S	Pre-closure inspection Recommended a compliance monitoring inspection
6/18/85	David Koepfer-S	Recommended issuing a complaint addressing Part A violations, environmental releases + associated cleanups, ground water monitoring + other
11/21/85	Tom O'Leary Dave Koepfer	- sampling at site

5. During inspection of this facility, did the inspector note any evidence of past disposal practices not currently regulated under RCRA, such as piles of waste or rubbish, injection wells, ponds or surface impoundments that might contain waste or active or inactive landfills?

____ YES - give date of inspection and describe observation:

NO

____ DON'T KNOW

(OVER)

(#4 cont'd)

3/16/85 -
3/26/85

Emergency Response
(State)
"

Fuel oil spill
investigation
sampling inspection -
Dir & LPC received
complaint based on
high ^{lead} metals in
samples

6. Do inspection reports indicate observations of discolored soils or dead vegetation that might be caused by a spill, discharge or disposal of hazardous wastes or constituents?

X Yes - indicate date of report and describe observations

Report dated 7/17/85 from Dave Koeppe's 1d/18/85 inspection: Some batteries were spilling contents onto ground, low area where rain collects, areas where old cracked battery cases were sticking out of soil & discoloration there.

NO

Don't know

7. Do inspection reports indicate the presence of any tanks at the facility which are located below grade and could possibly leak without being noticed by visual observation?

X Yes - date of inspection and describe information in report

4) R885 "tank" part of WWI system, but receives hazardous run off from waste piles (overflowing drainage sump)

~~§~~ No

Don't know

8. Does a groundwater monitoring system exist at the facility? No

9. If answer to question 8 is yes, is the groundwater system capable of monitoring both regulated RCRA units and other Solid Waste Management Units? NA

Explain -

10. Is the groundwater monitoring system in compliance with applicable RCRA groundwater monitoring standards? NA

If no, explain deficiency _____

11. Describe all information on facility subsurface geology or hydrogeology available.

<u>Type of Information</u>	<u>Author</u>	<u>Date</u>	<u>Summary of Conclusions</u>
----------------------------	---------------	-------------	-------------------------------

NONE

12. Did the facility submit a 103(c) notification pursuant to CERCLA?

☒ Yes

Date of Notification 6-12-81

☐ No

13. If answer to 12 is yes, briefly summarize content of that notification.
(waste management units identified, type of waste concerned)

AIT waste management unit information labeled as
unknown. Notification was based on slag storage
prior to disposal.

14. Has a CERCLA Preliminary Assessment/Site Investigation (PA/SI) been completed for this facility?

☒ Yes

☐ No

15. If answer to question 14 is yes, briefly describe conclusions of the PA/SI focusing on types of environmental contamination found, wastes and sources of contamination.

Facility thought to have contaminated on-site
and possibly off-site soils with lead, sulfuric acid,
and solvents.

16. If available, having reviewed the CERCLA notification, RCRA Part A and RCRA Part B, it appears that: (CERCLA unit refers to unit or area of concern in CERCLA response activity)

X RCRA and CERCLA units are same at this facility

 RCRA and CERCLA units are clearly different units

 There is an overlap between the RCRA and CERCLA units
(some are the same, some are different)

17. Description of Any Past Releases or Environmental Contamination:

<u>Type/Source of Release</u>	<u>Date</u>	<u>Material Released</u>	<u>Quantity</u>	<u>Response</u>
Faulty Air Pollution Control Equipment - reported in Indpts Star	4/8/82	Lead	unknown	N/A
Waste piles/ site contamination other than piles	7/17/85	Lead/acid from batteries	unknown	N/A

18. Identification of Reports or Documentation Concerning Each Release Described in Item 17.

<u>Title/Type of Report</u>	<u>Date</u>	<u>Author</u>	<u>Recipients</u>	<u>Contents</u>
"Pollution Control Fails; Firm Closes Again"	4/8/82	Indpls Star	N/A	Air Pollution Control Equipment not working at plant.
compliance monitoring inspection report	7/17/85	Dave Koeppe	RARA File	Batteries stored in paved + unpaved outside areas. Spillage onto ground/pavement. Evidence of spillage in boghouse area - both paved + unpaved. There is a low area in one corner where runoff collects which should be examined. A pile of soil removed in preparation for building a new wet battery cracking building should be checked.

19. Highlight any information gaps in the file - describe any plans to obtain additional needed information.

Lab. results for samples collected 11/21/85 of heavy metal contamination all over site. Enforcement is requesting that the company close + sign consent decree requiring closure. If company resists, closure will be required at hearing. Site may be determined to be a landfill due to large area of soil contamination.

Several areas showed evidence of old cracked battery cases sticking out of soil + discoloration. at site indicates high levels

20. Summary of major environmental problems noted, desired solution and possible approaches.

<u>Problem</u>	<u>Solution</u>	<u>Approach</u>	<u>Pros and Cons</u>
waste piles	closure	Enforcement.	
extensive soil contamination on site - maybe offsite	closure/ clean up	future P+ B required for continued operation w/ waste in containers instead of piles	

STATE BOARD OF HEALTH

INDIANAPOLIS

OFFICE MEMORANDUM

TO: David J. Koepper
Compliance Monitoring Section

FROM: Gregory A. Busch *GAB 2/19*
Quality Assurance Officer

SUBJECT: Review of Laboratory Results
for Samples Collected on
November 21, 1985, at Refined Metals
Marion County

DATE: February 18, 1986

THRU: Jack C. Corpuz *pc 2/19/86*
James E. Traylor *JET 2/20*
Guinn P. Doyle *gpd 2/24*
James M. Hunt *jmh 2/24*

I have reviewed the attached laboratory results. I have determined that the results are acceptable for use in enforcement actions. These results have been evaluated for the quality criteria contained in the Indiana Quality Assurance Project Plan. Any qualifications to the acceptance of this data will be identified in this memo.

Field duplicate samples are used to establish the representativeness of the field sampling (or the sampling variability). The field duplicates compare well for all metals except arsenic.

The total metal values for arsenic, cadmium, and lead are all high, especially the levels for lead. All samples are EP Toxic for lead. Two samples (C0372 and C0374) are EP Toxic for cadmium.

GAB/kp

Sampled

11/21/85

PPM

	As Tot. EP	Ba Tot. EP	Cd Tot. EP	Cr Tot. EP	Pb Tot. EP	Hg Tot. EP	Ni Tot. EP	Se Tot. EP	Ag Tot. EP	(mg/L) Tot. STATO	(mg/L) Tot. STATO
C0370 Field Dug	.05	3.3 .3	1.4 .14	3.5 .03	1.5 ND	5.75 .08	1.5 ND	1.5 ND			57
C0371 Field Dug	.30	5.8 .2	1.9 .19	3.3 ND	1.4 ND	5.25 .09	7.3 ND	1.3 ND			59
C0372	.04	4.3 ND	3.3 ND	2.2 ND	6.5 .14	4.6 ND	1.8 ND				90
C0373	.03	18 ND	6.0 ND	7.0 ND	1.7 ND	5.5 .24	9.3 ND	2.5 ND			87
C0374	.02	34 ND	7.0 ND	1.7 ND	5.5 .17	9.3 ND	2.5 ND				85

Refined Metals Corp.
Marion County

Gregory A. Busch
1-17-86